The GIS Solutions and Services on the Web

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Summary

I. Types of GIS applications
   1. Desktop Applications
   2. Web Applications
   3. Mobile Applications

II. Programming tools
   1. Spatial DBMS
   2. Programming language and API

III. Applications (Telecom network & online cadastral map)
   1. Database design
   2. Demonstration

Conclusion
Introduction

Types of GIS applications
Programmation tools
Applications

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Types of GIS applications

- Desktop Applications
- Web Applications
- Mobile Applications
Types of GIS applications

Desktop Applications:

Runs on the user computer

Example

Web mapping is the process of designing, implementing, generating and delivering maps on the web.

Web Applications
Mobile Applications

application software developed for small low-power handheld devices such as personal digital assistants, enterprise digital assistants or mobile phones.
Programming tools

DBMS: Postgresql
Is a free and opensource database management system
The spatial database extension allows definition and management of geometric attributes in database tables.

The geometry is a specific column in the table because it has associated indexes to allow spatial operations.

- A spatial database: Optimized to store and query data related to objects in space, including points, lines, and polygons.

- data provider: Npgsql
• Programming language:
  C#.net

• SharpMap
  It provides access to many types of GIS data, enables spatial querying of that data, and renders maps.
Applications

Database design

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3. Demonstration

Demo1: Telecom network management
Demo2: Online cadastral map
Applications

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Conclusion

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Thank you!